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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/557,666	04/25/2000	Chol Su Kang	EXIO-001	9328

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EXAMINER

TRAN, THIEN D

ART UNIT PAPER NUMBER

2665

DATE MAILED: 11/03/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/557,666

Applicant(s)

KANG ET AL.

Examiner

Thien D Tran

Art Unit

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 23 August 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-34,36-39 and 41 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-34,36-39 and 41 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 31-34, 36-39, 41 are rejected under 35 U.S.C. 102(e) as being participated by Dalal (U.S Patent No.6,633,554 B1) in the view of Baker et al (U.S Patent No. 6,459,725 B1).

Regarding claims 31, 36, 41 Dalal disclose a method for communicating with wireless devices, comprising:

initiating a communication session between a wireless communication device and a first wireless base station coupled to an Ethernet communication pathway (col.5 lines 22-30, figure 1);

negotiating a handoff method of the communication session from the first wireless base station to a second wireless base station using the Ethernet communication pathway (col.6 lines 60-65); and

handling off the communication session from the first wireless base station to the second wireless base station. See col.7 lines 25-35, figure 4.

Dalal does not disclose a device used for repeating signals to increase a range of a wireless base station. Baker discloses a repeater used for repeating signals to

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increase a range of a wireless base station, figure 8. Therefore, it would have been obvious to one having ordinary skill in the art to have the feature of having the device used for repeating signals to increase a range of a wireless base station to avoid the loss of signals due to the distant of the wireless base station.

Regarding claims 32, 37, Dalal discloses the wireless communication device using CDMA. See col.6 lines 20-25.

Regarding claims 33, 38, Dalal discloses the method comprising:
providing the wireless communication device with access to any suitable connection or network backbone connection means, and the like (including Internet/Ethernet). See col.5 lines 25-30.

Regarding claim 34, 39, Dalal discloses the method comprising the wireless communication device with access to public switch telephone network. See col.5 lines 23.

3. Claim 1-30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sayers et al (U.S Patent No. 6,542,754 B1) in the view of Dalal (U.S Patent No. 6,633,554 B1) and in further view of Baker et al (U.S Patent No. 6,459,725 B1).

Regarding claims 1, 10, 18, 20, 26, 30, Sayers discloses an indoor private wireless network 14 (in-office wireless code division multiple access) CDMA communication system (see col.9, lines 50-65), comprising:

a local area network, IP LAN (LAN is an Ethernet network), having an ethernet communication back-bone (see col.10 lines 25-30, figure 9);

a plurality of CDMA P-BTS-27 from 1-P (wireless base stations) coupled to said LAN communication back-bone (see col.10 lines 48-55);

server coupled to said LAN communication back-bone (see col.10 lines 1-15);

a plurality of wireless mobile stations coupled to the CDMA P-BTS-27 via said LAN communication back-bone (see figure 1, col.12 lines 40-50);

a communication gateway coupled to said LAN communication back-bone (see col.9 lines 45-50);

a router coupled to said LAN communication back-bone to enable said communication devices communicate to the internet (see col.9 lines 40-45); and

wherein the CDMA P-BTS-27 operable to handle handoff by signaling (commands/requests) from one to another (negotiating handoff from first base station to the second base station) through the Ethernet backbone (see figure 1, col.12 lines 40-50). Even though, Sayers does not specifically disclose the negotiation step of handoff from a CDMA P-BTS-27 (1) (first base station) to CDMA P-BTS-27 (2) (second base station), it is a well-known processing step in hand off for the mobile station to accept data from the CDMA P-BTS-27 (2) (second base station) properly. For example, Dalal discloses in col.7 lines 25-35 a process step of sending command/requests (negotiation) from a source base station (first base station) to a target base station (second base station) to perform the procedure of handoff.

Sayer and Dalal do not disclose a plurality of repeaters coupled to the communication back-bond to help increasing to range of the wireless base station.

Baker discloses a repeater used for repeating signals to increase a range of a wireless

base station, figure 8. Therefore, it would have been obvious to one having ordinary skill in the art to have the feature of the plurality of repeaters coupled to the communication back-bond to help increasing a range of the wireless base station to avoid the loss of signals due to the distant of the wireless base stations.

Regarding claim 2, 11, 25, 27, Sayers discloses that wireless base station includes a plurality of CDMA wireless modem modules for providing a communication link to external wireless communication devices to the in-office wireless communication system. See col.6 lines 10-20.

Regarding claims 3, 14, 17, Sayers discloses that wireless base station further includes a applications processing module for processing calls received and originated from said wireless base station. See col.14 lines 10-20.

Regarding claims 4, 19, 24, Sayers discloses call processing module formats call signals received by said wireless base station into data packets adaptable for the ethernet communication back-bone. See col.16 lines 45-50.

Regarding claims 5, 15, 23, Sayers discloses that wireless base station further includes an inter-networking processing module for providing a communication channel between the internet and a wireless communication unit coupled to said ethernet communication back-bone. See figure 1, col.16 lines 45-65.

Regarding claim 6, 22, Sayers discloses that wireless internet server includes a wireless mobility module for managing mobile units within the system. See col.10 lines 10-20.

Regarding claims 7, 21, Sayers discloses that wireless internet server provides real-time call processing. See col.10 lines 20-25.

Regarding claims 8, 16, 29, Sayers discloses that wireless internet server includes an integrated base station controller module and a mobile switch controller module for managing calls between communications units within the system. See col.16 lines 10-50.


Regarding claims 9, 13, Sayers discloses that wireless internet server includes call manger processing module for managing calls received and calls originated from the in-office wireless communication system. See col.14 lines 10-50.

Regarding claims 12, 28, Sayers discloses that wireless base station includes call selection modules for determining whether a call received or originated from the wireless base station is a voice call or a data call. See col.12 lines 20-60.

Conclusion

4. Any inquiry concerning this communication or earlier communication from the examiner should be directed to Thien Tran whose telephone number is (571) 272-3156. The examiner can normally be reached on Monday-Friday from 8:30AM to 5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Huy Vu, can be reached on (571) 272-3155. Any inquiry of a general nature of relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (571) 272-2600.



STEVEN NGUYEN
PRIMARY EXAMINER

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Thien Tran